

RTCR

Revised Total Coliform Rule: Quick Reference Guide

Overview of the Rule		
Title*	Revised Total Coliform Rule (RTCR) 179 NAC 26	
Purpose	To increase public health protection through the reduction of potential pathways of entry for fecal contamination into distribution systems.	
General Description	The RTCR establishes a maximum contaminant level (MCL) for <i>E. coli</i> and uses <i>E. coli</i> and total coliforms to initiate a "find and fix" approach to address fecal contamination that could enter into the distribution system. It requires public water systems (PWSs) to perform assessments to identify sanitary defects and subsequently take action to correct them.	
* This document provise	The RTCR applies to all PWSs.	
* This document provides a summary of Nebraska drinking water requirements; to ensure full compliance, please consult 179 NAC 26 and related regulations. Critical Deadlines and Requirements for Public Water Systems		
Before April 1, 2016	 ✓ PWS must develop a written sample siting plan that identifies all sample sites, including sites for routine and repeat monitoring. ✓ PWSs monitoring quarterly must also identify additional routine monitoring sites in their sample siting plans. ✓ Sample siting plans are subject to state review and revision. 	
Beginning April 1, 2016	PWSs must comply with RTCR requirements.	
What are the Major Provisions?		
Routine Sampling Requirements Total coliform samples must be collected by PWSs at sites which are representative of water quality throughout the distribution system according to a written sample siting plan subject to state review and revision.		
For PWSs collecting more than one sample per month, collect total coliform samples at regular intervals throughout the month, except that ground water systems serving 4,900 or fewer people may collect all required samples on a single day if the samples are taken from different sites.		
➤ Each total coliform-positive (TC+) routine sample must be tested for the presence of <i>E. coli</i> .		
If any routine sample is TC+, repeat samples are required. – PWSs on quarterly monitoring must take a minimum of three additional routine samples (known as additional routine monitoring) the month following a TC+ routine or repeat sample.		
Repeat Sampling Requirements		
Within 24 hours of learning of a TC+ routine sample result, (or as soon as possible) at least 3 repeat samples must be collected and analyzed for total coliform	 One repeat sample must be collected from the same tap as the original sample. One repeat sample must be collected from within five service connections upstream. One repeat sample must be collected from within five service connections downstream. The PWS may propose alternative repeat monitoring locations that are expected to better represent pathways of contamination into the distribution system. (Develop an SOP as part of the sample siting plan.) 	
If one or more repeat sample is TC+:	 The TC+ sample must be analyzed for the presence of <i>E. coli</i> The PWS must collect another set of repeat samples, <u>unless</u> an assessment has been triggered. 	

Visit our website at http://dhhs.ne.gov/drinkingwater for more information.

Assessments and Corrective Actions			
The RTCR requires PWSs that have an indication of coliform contamination (e.g., as a result of TC+			
samples, <i>E. coli</i> MCL violations, performance failure) to assess the problem and take corrective action.			
There are two levels of assessments (i.e., Level 1 and Level 2) based on the severity or frequency of the			
problem.			
Purpose of Level	To find sanitary defects at the PWS including:		
1 and Level 2	 Sanitary defects that could provide a 	pathway of entry for microbial	
Assessments	contamination, or		
	 Sanitary defects that indicate failure (existing or potential) of protective 		
	barriers against microbial contamination.		
Deadline for	When sanitary defects are identified during a Level 1 or Level 2 Assessment, they		
Completing	should be corrected as soon as possible to protect public health. The PWS must		
Corrective	complete corrective actions by one of the following timeframes:		
Actions	No later than the time the assessment form is submitted to the Department,		
	which must be within 30 days of triggering the assessment, or		
	Within Department-approved timeframe which was proposed on the		
Laval 4 Assassassas	assessment form.		
Level 1 Assessment		natan angle tima a di a di A A	
Conducting Level	Performed by the PWS owner or operator each time a Level 1 Assessment is triggered.		
1 Assessments	triggered		
	Upon trigger of a Level 1 Assessment, the Level 1 Assessment form must be submitted within 30 days to the Department.		
Level 1	submitted within 30 days to the Department. Level 1 Assessment is triggered if any one of the following occurs:		
Assessment	A PWS collecting fewer than 40 sample.		
Triggers	routine/repeat samples in the same n		
Inggers	A PWS collecting at least 40 samples per month has greater than 5.0% of		
	the routine/repeat samples in the same month that are TC+.		
	A PWS fails to take every required repeat sample after any single TC+		
	sample.	, , ,	
Level 2 Assessment	S		
Conducting Level	Performed by the Department each time a Level 2 Assessment is triggered.		
2 Assessments	The PWS is responsible for ensuring that the Level 2 Assessment is		
	conducted, regardless of the entity conducting it.		
	 Upon trigger of a Level 2 Assessment, the Level 2 Assessment form must be 		
	submitted within 30 days to the Department.		
Level 2	Level 2 Assessment is triggered if any one of the following occurs:		
Assessment	A PWS incurs an <i>E. coli</i> MCL violation.		
Triggers	 A PWS has a second Level 1 Assessment within a rolling 12-month period. 		
Major Violations			
	E. coli MCL Violation Occurs with the Following Sample Result Combination		
	Routine	Repeat	
E. coli MCL Violation	EC+	TC+	
	EC+	Any missing sample	
	EC+	EC+	
	TC+	EC+	
	A PWS will receive a Treatment Technique violation when any of the following occur:		
	Failure to conduct a Level 1 or Level 2 Assessment within 30 days of a trigger.		
Treatment			
Technique Violation			
Failure of a seasonal system to complete Department-approved start-u			
Cround Water Dula	procedures prior to serving water to the public.		
Ground Water Rule Cround water source well complete are triggered by any TC I routine complet. These requirements			
 Ground water source well samples are triggered by any TC+ routine sample. These requirements remain unchanged. 			
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